

**Notice of Allowability**

Application No.

10/081,236

Examiner

Christopher R. Magee

Applicant(s)

WADA ET AL.

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 3/12/2007.
2. ☒ The allowed claim(s) is/are 1,8,11 and 31-37 (renumbered as 1-10, respectively).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*CR Magee* 5/29/07

*Angel Castro C*  
**ANGEL CASTRO**  
**PRIMARY EXAMINER**

## **DETAILED ACTION**

### ***Response to Amendment***

1. The reply filed 03/12/2007 was applied to the following effect: All relevant objections and rejections are withdrawn as being satisfied.

### ***Reasons for Allowance***

2. Claims 1, 8, 11 and 31-37 are allowed (renumbered as 1-10, respectively).
3. The following is an examiner's statement of reasons for allowance:

This application is for a HEAD SLIDER WITH PRECISE POSITIONING ACTUATOR AND MANUFACTURING METHOD OF HEAD SLIDER.

- **Claims 1 and 33** specify a head slider with a precise positioning actuator, which requires:

*"a static part coupled with said base between said pair of movable arms to form an E-shape and the static part spaced from the head section."*

The closest prior arts of record, Yanagisawa (US 6,487,045 B1) and Novotny (US 6,289,564 B1) fail to teach, show or suggest, by either anticipating or rendering obvious, the invention as set forth in the claims of the instant application. Furthermore, a search made does not detect the combined claimed elements as set forth in the pending claims. Additionally, the reasons for allowance of the claims over the prior art of record is believed to be readily clear, self evident and apparent from the claim language set forth in each of claims 1 and 33, when compared and contrasted with the prior art.

More particularly, the instant invention (as set forth in claims 1 and 33) provides for head slider with a precise positioning actuator has a static part coupled with said base between said pair of movable arms to form an E-shape and the static part spaced from the head section.

Yanagisawa '045 discloses an actuator section [14] for precisely positioning said at least one head element [col. 8, lines 62-64; Fig. 1].

Novotny '564 shows (a) a pair of movable arms [42a, 42b] capable of displacing its top end portions in response to a drive signal applied to said actuator section, both of said side surfaces of said head section being fixed to said top end portions of said pair of movable arms, (b) a base [24] to be fixed to a support means of said head slider, said pair of movable arms extending from said base along said air bearing surface, and (c) a static part [44] coupled with said base and formed between and spaced from said pair of movable arms [col. 3, lines 49-52; col. 4, lines 5-11; Fig. 2]. Novotny '564 also shows each of the pair of movable arms comprises an arm member [60], and a piezoelectric element [68] formed on or fixed to a surface of said arm member [Fig. 5, which displays one side of actuator section 42a].

None of the cited prior art of record above disclose such a head slider with a precise positioning actuator as set forth in the manner, function and relationship relative to other claimed structures as prescribed by the independent claims.

Therefore, these features, in combination with other features of claims 1 and 33 are not anticipated by, nor made obvious over, the closest prior arts of record of Yanagisawa (US 6,487,045 B1) and Novotny (US 6,289,564 B1).

Art Unit: 2627

**Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Magee whose telephone number is (571) 272-7592. The examiner can normally be reached on M-F, 8: 00 am-4: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Christopher R. Magee  
Patent Examiner  
Art Unit 2627

May 29, 2007  
crm

  
ANGEL CASTRO  
PRIMARY EXAMINER